10/612,493

STM-STRUCTURE SEARCH

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ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:41470 CAPLUS

DOCUMENT NUMBER:

140:119648

TITLE:

Charge transport compositions and electronic

devices made with such compositions

INVENTOR(S): Lecloux, Daniel David; Wang, Ying

PATENT ASSIGNEE(S):

E.I. Du Pont de Nemours and Company, USA

SOURCE: PC'

PCT Int. Appl., 32 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.		KIND DATE				APPLICATION NO. DATE											
WO	2004	0052	88	A.	2	2004	0115		W	0 20	 03~บ	s216	10	2003	0709		
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
														KZ,			
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,
														SY,			
														AM,			
				RU,								•		•	•	•	•
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	BE,	BG,
														ΙE,			
														CM,			
						SN,			-	-			•	•	•	•	
US	2004	0661	35	A.	1	2004	0408		U:	S 200	03-6	1248	2	2003	0702		
US	2004	0681	15	A:	1	2004	0408		U:	S 200	03~6	1249	3	2003	0702		
US	2004	0778	60	A.	L	2004	0422		U.	S 200	03-6	12704	4	2003	1208		
PRIORIT'	Y APP	LN.	INFO	. :				τ	JS 20	002-3	39476	57P	P	2002	0710		
													_	2003			
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OTHER SOURCE(S):

MARPAT 140:119648

GI

$$(R^{2}) y$$

$$(R^{2}) y$$

$$(R^{2}) p$$

$$(R^{2}) p$$

$$(R^{3}) p$$

$$(R^{3}) p$$

$$(R^{1}) x$$

$$(R^{2}) p$$

AB Compns. comprising phenanthroline derivs. are described in which the derivs. are described by the general formulas I, II, or III (R1 and R2 = H, F, C1, Br, alkyl, heteroalkyl, alkenyl, alkynyl, aryl, heteroaryl, CnHaFb, OCnHaFb, C6HcFd, and OC6HcFd and are the same or different at each occurrence; R3 = a single bond, alkylene, heteroalkylene, arylene, heteroarylene, arylenealkylene, and heteroarylenealkylene groups and are the same or different at each occurrence; Q = a single bond or a multivalent group; m ≥2; a, b, c, and d = 0 or integers such that a+b = 2n + 1, and c + d = 5; n is an integer; p = 0-1; x is 0-3; y = 0-2; with the proviso that, for compds. described by the general formula I there is ≥1 substituent on an aromatic group selected from F, CnHaFb, OCnHaFb, C6HcFd, and OC6HcFd). Electronic devices (e.g., light-emitting diodes, light-emitting electrochem. cells, or photodetectors) are also described in which ≥1 layer comprises the phenanthroline derivs.

IT 647375-43-7P 647375-48-2P 647375-54-0P

RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(phenanthroline derivative-containing compns. and electronic devices made using

them)

RN 647375-43-7 CAPLUS

CN 1,10-Phenanthroline, 2,9-bis[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

RN 647375-48-2 CAPLUS

CN 1,10-Phenanthroline, 2,9-bis(4-fluorophenyl)- (9CI) (CA INDEX NAME)

RN 647375-54-0 CAPLUS

CN 1,10-Phenanthroline, 2,9-bis[3,5-bis(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:581980 CAPLUS

DOCUMENT NUMBER:

INVENTOR(S):

135:167519

TITLE:

Insulated nanoscopic pathways, compositions

and devices of the same based on metallo-rotaxane

Swager, Timothy M.

PATENT ASSIGNEE(S):

Massachusetts Institute of Technology, USA

SOURCE:

PCT Int. Appl., 81 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE PATENT NO. APPLICATION NO. DATE ____ -----WO 2001057140 A1 20010809 WO 2001-US3784 20010205

W: CA, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

PT, SE, TR

EP 1263887 EP 2001-907013 20021211 20010205 A1

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR

PRIORITY APPLN. INFO.:

US 2000-180357P P 20000204 WO 2001-US3784 W 20010205

The present invention relates to compns. which provide an insulated AΒ nanoscopic pathway. The pathway comprises mols., polymers or nanoscopic particles capable of conducting charge integrated with nanoscopic switches which are capable of electronic communication with the charge-conducting species. Turning "on" the nanoscopic switch electronically "connects" the various mols./particles, such that a continuous nanoscopic pathway results. The nanoscopic pathway can be used in a sensor, where the switches can act as receptors for analytes.

IT88498-43-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(in preparation of insulated nanoscopic pathways comprising metallo-rotaxane, a dielec. insulator, and a nanoscopic switch)

RN 88498-43-5 CAPLUS

CN Phenol, 4,4'-(1,10-phenanthroline-2,9-diyl)bis- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:245216 CAPLUS

DOCUMENT NUMBER:

131:27029

TITLE:

AUTHOR(S):

 π - π Stacking-Induced Cooperativity in Copper(I)

Complexes with Phenanthroline Ligands

Meyer, Michel; Albrecht-Gary, Anne-Marie;

Dietrich-Buchecker, Christiane O.; Sauvage,

Jean-Pierre

CORPORATE SOURCE:

Laboratoire de Physico-Chimie Bioinorganique, Faculte

de Chimie, Strasbourg, 67000, Fr.

SOURCE: Inorganic Chemistry (1999), 38(10), 2279-2287 CODEN: INOCAJ; ISSN: 0020-1669

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

AΒ The formation consts. of mono- and bischelate Cu(I) complexes with four phenanthroline derivs. were determined by absorption spectrophotometry in MeCN and in a ternary MeCN/dichloromethane/H2O 80/15/5 (volume/volume) mixture The influence of electron-donating Me and anisyl substituents in positions 2 and 9 of the phenanthroline core was studied using both sym. (dmp = 2,9-dimethyl-1,10-phenanthroline; dap = 2,9-di(p-anisyl)-1,10phenanthroline) and unsym. (map = 2-(p-anisyl)-1,10-phenanthroline; Memap = 2-(p-anisyl)-9-methyl-1,10-phenanthroline) ligands. The equilibrium consts. show no significant dependence upon the solvent composition The binding affinity of α , α '-diimine ligands and their Me-substituted derivs. is governed by the σ -donation of the N atoms. In contrast, anisyl substituents exert a destabilizing effect on the monochelate complexes likely due to steric hindrance, but favor the formation of the bischelate species. The resulting pos. cooperativity was rationalized in terms of intramol. π - π stacking interactions between the electron rich anisyl groups and the electron accepting phenanthroline moieties. Cyanide-assisted demetalation kinetic studies were carried out to gain further insight into the structural properties of the four bischelate complexes examined The rate consts., which reflect subtle geometrical variations, span over >5 orders of magnitude and reveal an unexpected high accessibility of the Cu(I) center in the unsym. complexes Cu(map)2+ and Cu(Memap)2+.

IT 89333-97-1, 2,9-Di(p-anisyl)-1,10-phenanthroline RL: RCT (Reactant); RACT (Reactant or reagent)

(for preparation of copper(I) complexes with phenanthroline derivative ligands)

RN 89333-97-1 CAPLUS

CN 1,10-Phenanthroline, 2,9-bis(4-methoxyphenyl) ~ (9CI) (CA INDEX NAME)

REFERENCE COUNT: 86 THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1990:245320 CAPLUS

DOCUMENT NUMBER: 1

112:245320

TITLE:

Lithium-selective compositions and

electrodes, as well as methods for their use.

INVENTOR(S):

Daniel, Daniel S.; Delton, Mary H.; Warren, Harold C.,

III

PATENT ASSIGNEE(S):

Eastman Kodak Co., USA

SOURCE:

U.S., 35 pp.

CODEN: USXXAM

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4853090	A	19890801	US 1988-187175	19880428
WO 8910555	A1	19891102	WO 1989-US1480	19890412
W: FI, SU				
AU 8933389	A1	19891102	AU 1989-33389	19890426
AU 607325	B2	19910228		
EP 341859	A1	19891115	EP 1989-304162	19890426
R: AT, BE,	CH, DE	, FR, GB, IT,	LI, LU, NL, SE	
JP 02015079	A2	19900118	JP 1989-104766	19890426
PRIORITY APPLN. INFO.	.:	U	S 1988-187175	19880428
OTHER SOURCE(S):	MA	RPAT 112.24532	n	

AB A composition, electrode, and method are useful for the detection of Li ions in an aqueous liquid, where the Li-selective composition comprises a lipophilic group-substituted 1,10-phenanthroline, a compound capable of solvating the phenanthroline, and a supporting matrix. This compn . can be used in a Li-selective electrode as a Li-selective membrane. The electrode can also comprise an internal reference electrode. Application is indicated for clin. chemical, biol. fluids, wastewater, cooling water, groundwater, as well as food and brewery processing fluids.

IT 25677-69-4 126617-90-1 127347-71-1

127347-72-2 127347-74-4

RL: DEV (Device component use); USES (Uses)

(lithium-selective electrodes from)

RN 25677-69-4 CAPLUS

CN 1,10-Phenanthroline, 2,9-diphenyl- (8CI, 9CI) (CA INDEX NAME)

RN 126617-90-1 CAPLUS

CN 1,10-Phenanthroline, 2,9-bis[2-(methoxymethyl)phenyl]- (9CI) (CA INDEX NAME)

10/612,493

RN 127347-71-1 CAPLUS

CN 1,10-Phenanthroline, 2,9-bis(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

RN 127347-72-2 CAPLUS

CN 1,10-Phenanthroline, 2,9-bis(3,5-dimethoxyphenyl)- (9CI) (CA INDEX NAME)

RN 127347-74-4 CAPLUS

CN 1,10-Phenanthroline, 2,9-bis(2,2'-dimethoxy[1,1'-biphenyl]-3-yl)- (9CI) (CA INDEX NAME)

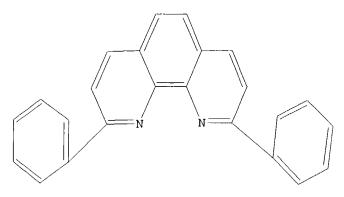
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10/612,493

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L4 L5	FILE	'CAPLUS 219 S 4 S	L3		15:41:2 OSITION?	06	MAY	2004
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Structure attributes must be viewed using STN Express query preparation.

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PALM INTRANET

Day: Thursday Date: 5/6/2004 Time: 14:39:13

Inventor Name Search Result

Your Search was:

Last Name = LECLOUX

First Name = DANIEL

Application#	Patent#	Status	Date Filed	Title	Inventor Name 30
60458277	Not Issued	019	03/28/2003	CHARGE TRANSPORT COMPOSITIONS AND ELECTRONIC DEVICES MADE WITH SUCH COMPOSITION	LECLOUX, DANIEL DAVID
60403858	Not Issued	159	08/15/2002	COMPOUNDS COMPRISING PHOSPHORUS-CONTAINING METAL COMPLEXES	LECLOUX, DANIEL DAVID
60399934	Not Issued	159	07/30/2002	METALLIC COMPLEXES COVALENTLY BOUND TO CONJUGATED POLYMERS AND ELECTRONIC DEVICES CONTAINING SUCH COMPOSITIONS	LECLOUX, DANIEL DAVID
60394767	Not Issued	159	07/10/2002	CHARGE TRANSPORT COMPOSITIONS AND ELECTRONIC DEVICES MADE WITH SUCH COMPOSITIONS	LECLOUX, DANIEL DAVID
60347911	Not Issued	159	11/07/2001	ELECTROLUMINESCENT IRIDIUM COMPOUNDS HAVING RED-ORANGE OR RED EMISSION AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL DAVID
60347910	Not Issued	159	11/07/2001	ELECTROLUMINESCENT PLATINUM COMPOUNDS AND DEVICES MADE FROM SUCH COMPOUNDS	LECLOUX, DANIEL DAVID
60305955	Not Issued	159	07/17/2001	SUBLIMATION SCREENING TEST AND APPARATUS	LECLOUX, DANIEL DAVID
60290294	Not Issued	159	05/11/2001	COPPER-CATALYZED VAPOR PHASE HYDROCYANATION OF DIOLEFINIC COMPOUNDS	LECLOUX, DANIEL
60045753	Not	159	05/06/1997	METAL-BASED OXIDANTS AND	LECLOUX,

	Issued			USE THEREOF	DANIEL D.
10699411	Not Issued	030	10/30/2003	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYLPYRIDINES, PHENYLPRIMIDINES, AND PHENYLQUINOLINES AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL D.
10696401	Not Issued	020	10/29/2003	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYLPRYIDINES, PHENYLPYRIMIDINES, AND PHENYLQUINOLINES AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL D.
10696349	Not Issued	020	10/29/2003	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYLPRYIDINES, PHENYLPYRIMIDINES, AND PHENYLQUINOLINES AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL DAVID
10696095	Not Issued	030	10/29/2003	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYLPRYIDINES, PHENYLPYRIMIDINES, AND PHENYLQUINOLINES AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL D.
<u>10696060</u>	Not Issued	030	10/29/2003	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYLPRYIDINES, PHENYLPYRIMIDINES, AND PHENYLQUINOLINES AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL DAVID
10696048	Not Issued	030	10/29/2003	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYLPRYIDINES, PHENYLPYRIMIDINES, AND PHENYLQUINOLINES AND DEVICES MADE WITH SUCH	LECLOUX, DANIEL DAVID

				COMPOUNDS	
10696003	Not Issued	030	10/29/2003	ELECTROLUMINESCENT IRIDIUM COMPOUNDS WITH FLUORINATED PHENYLPRYIDINES, PHENYLPYRIMIDINES, AND PHENYLQUINOLINES AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL D.
10669494	Not Issued	020	09/24/2003	WATER DISPERSIBLE POLYTHIOPHENES MADE WITH POLYMERIC ACID COLLOIDS	LECLOUX, DANIEL DAVID
10669403	Not Issued	020	09/24/2003	METHOD FOR THE APPLICATION OF ACTIVE MATERIALS ONTO ACTIVE SURFACES AND DEVICES MADE WITH SUCH METHODS	LECLOUX, DANIEL DAVID
10631432	Not Issued	030	07/31/2003	COMPOUNDS COMPRISING PHOSPHORUS-CONTAINING METAL COMPLEXES	LECLOUX, DANIEL DAVID
<u>10625096</u>	Not Issued	030	07/22/2003	METALLIC COMPLEXES COVALENTLY BOUND TO CONJUGATED POLYMERS AND ELECTRONIC DEVICES CONTAINING SUCH COMPOSITIONS	LECLOUX, DANIEL DAVID
10612704	Not Issued	030	12/08/2003	CHARGE TRANSPORT COMPOSITIONS AND ELECTRONIC DEVICES MADE WITH SUCH COMPOSITIONS	LECLOUX, DANIEL DAVID
10612493	Not Issued	071	07/02/2003	CHARGE TRANSPORT COMPOSITIONS AND ELECTRONIC DEVICES MADE WITH SUCH COMPOSITIONS	LECLOUX, DANIEL DAVID
10612482	Not Issued	030	07/02/2003		LECLOUX, DANIEL DAVID
10480974	Not Issued	020	12/15/2003	TEST AND APPARATUS	LECLOUX, DANIEL DAVID
10284728	Not Issued	071		PLATINUM COMPOUNDS AND DEVICES MADE WITH SUCH COMPOUNDS	LECLOUX, DANIEL DAVID
10284593	Not	020	10/31/2002	ELECTROLUMINESCENT	LECLOUX,

	Issued			IRIDIUM COMPOUNDS HAVING RED-ORANGE OR RED EMISSION AND DEVICES MADE WITH SUCH COMPOUNDS	DANIEL DAVID
10195942	Not Issued	071	07/15/2002	COMPLEXES WITH IMINE	LECLOUX, DANIEL DAVID
10188517	Not Issued	030	07/03/2002	SUBLIMATION SCREENING TEST AND APPARATUS	LECLOUX, DANIEL DAVID
10140736	Not Issued	094	05/08/2002	(mxxx)	LECLOUX, DANIEL
10027421	6670645	150	12/20/2001		LECLOUX, DANIEL D.

Inventor Search Completed: No Records to Display.

	Last Name	First Name	
Search Another:	Lecloux	Daniel	1
Inventor		Search	et.

To go back use Back button on your browser toolbar.

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